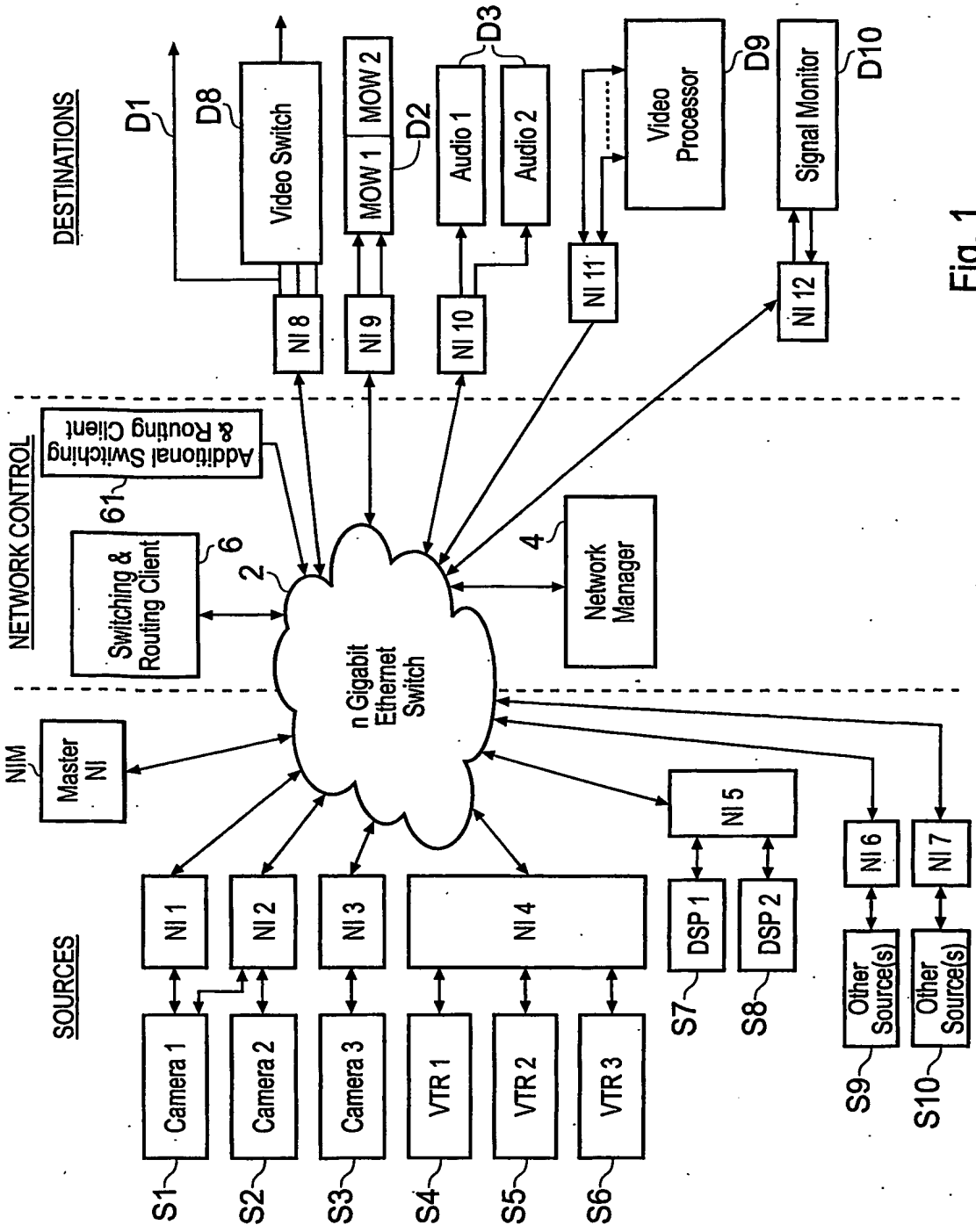
DESTINATIONS
D1
D8
Video Switch
MOW 2
MOW 1
D2
D3
Audio 1
Audio 2
Video Processor
D9
Signal Monitor
D10
NI 8
NI 9
NI 10
NI 11
NI 12
NETWORK CONTROL
Additional Switching & Routing Client
61
Switching & Routing Client
6
2
n Gigabit Ethernet Switch
4
Network Manager
NIM
Master NI
SOURCES
NI 1
NI 2
NI 3
NI 4
NI 5
NI 6
NI 7
DSP 1
DSP 2
Other Source(s)
Other Source(s)
Camera 1
Camera 2
Camera 3
VTR 1
VTR 2
VTR 3
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10

Fig. 1

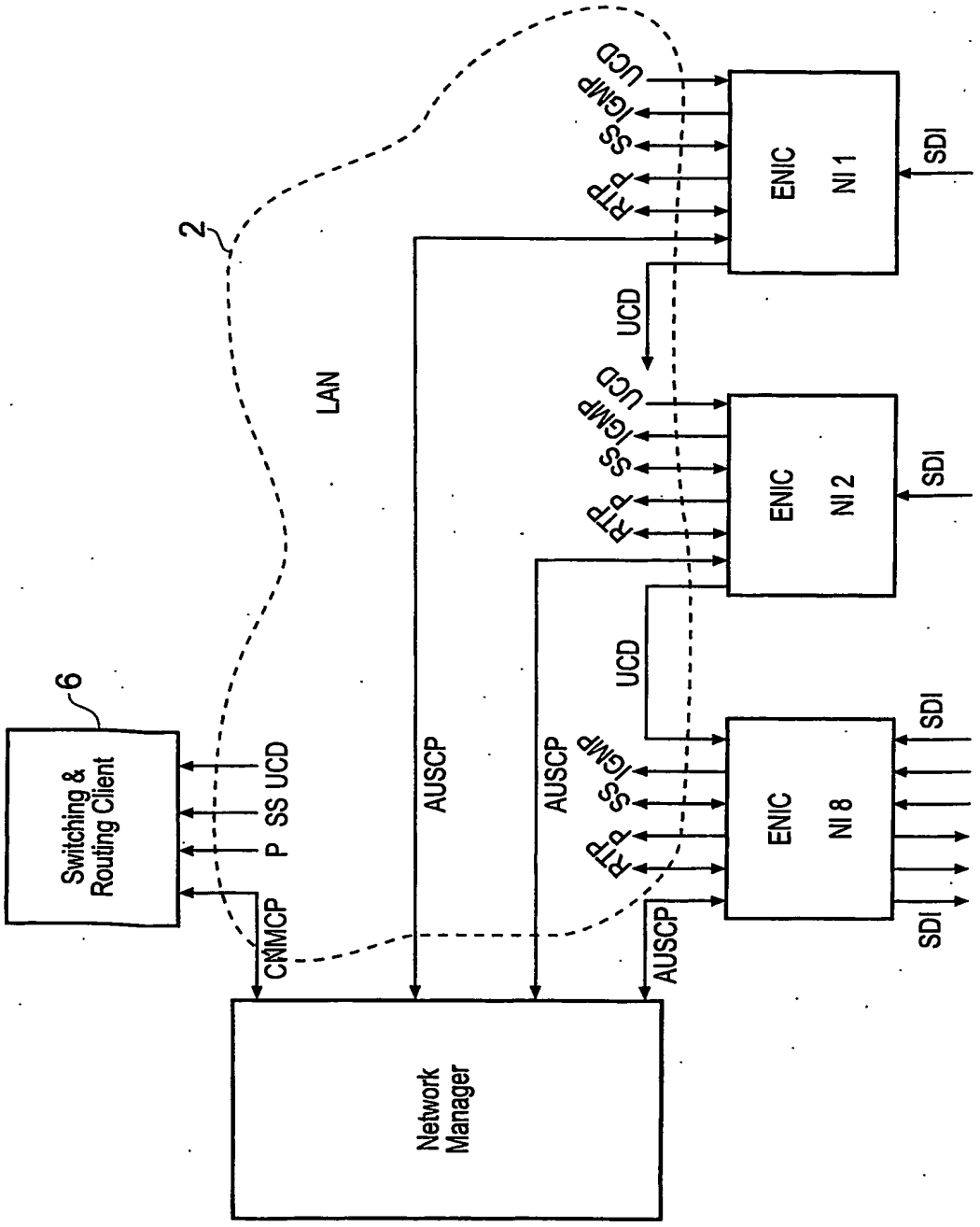
2
LAN
6
Switching & Routing Client
P SS UCD
CNMCP
AUSCP
AUSCP
AUSCP
Network Manager
ENIC NI 1
ENIC NI 2
ENIC NI 8
UCD
IGMP
SS
RTP
SDI

Fig. 2

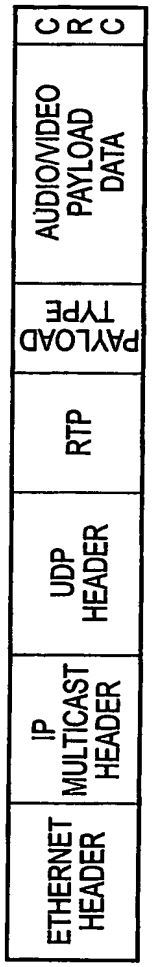
ETHERNET HEADER
IP MULTICAST HEADER
UDP HEADER
RTP
PAYLOAD TYPE
AUDIO/VIDEO PAYLOAD DATA
C R C

Fig. 3

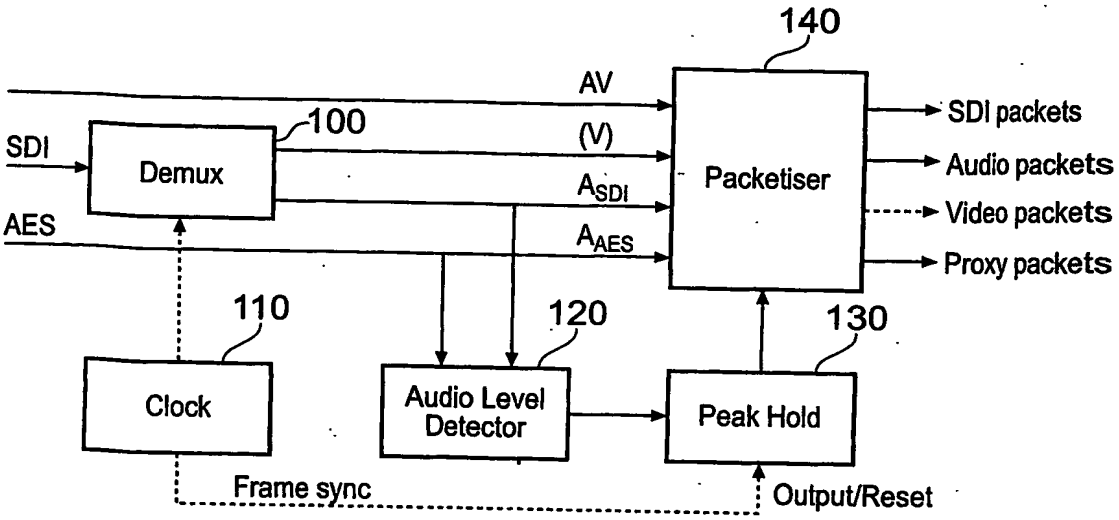

Fig. 4

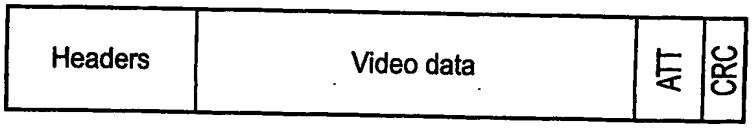

Fig. 5

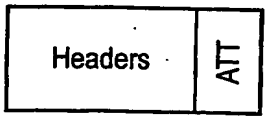

Fig. 6

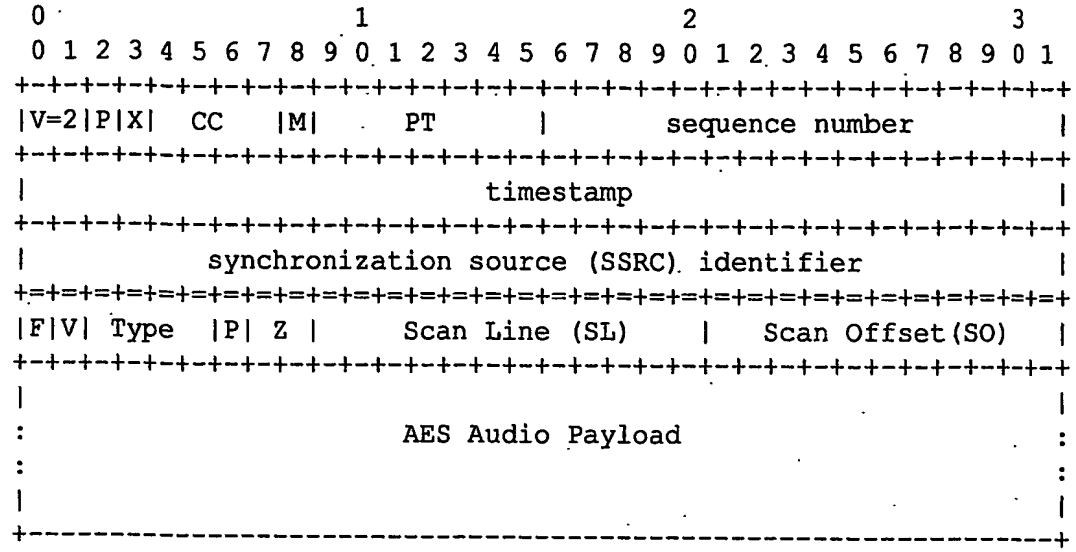
0 1 2 3
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
|V=2|P|X| CC |M| PT | sequence number |
| timestamp |
| synchronization source (SSRC) identifier |
|F|V| Type |P| Z | Scan Line (SL) | Scan Offset(SO) |
| |
: AES Audio Payload :
: :
| |

Fig. 7

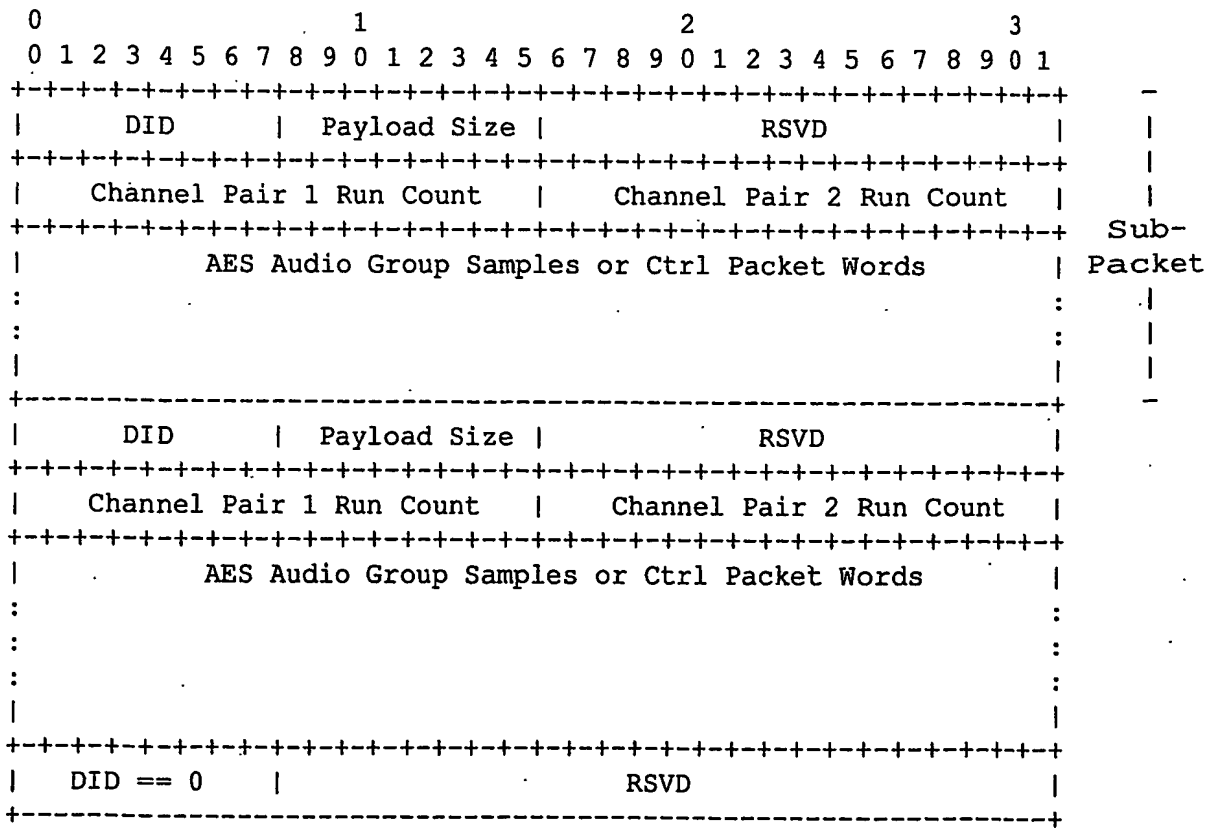
0 1 2 3
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
| DID | Payload Size | RSVD |
| Channel Pair 1 Run Count | Channel Pair 2 Run Count |
| AES Audio Group Samples or Ctrl Packet Words |
: :
: :
| |
| DID | Payload Size | RSVD |
| Channel Pair 1 Run Count | Channel Pair 2 Run Count |
| AES Audio Group Samples or Ctrl Packet Words |
: :
: :
: :
| |
| DID == 0 | RSVD |
Sub-Packet

Fig. 8

6/7

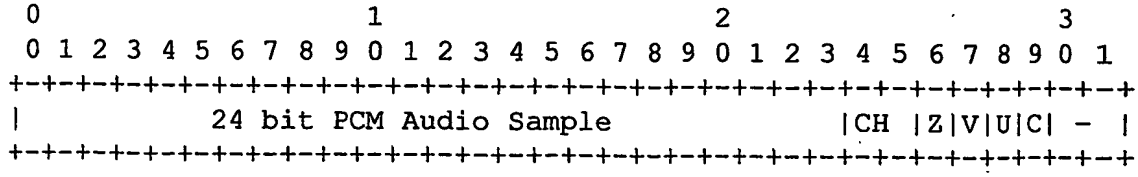

Fig. 9

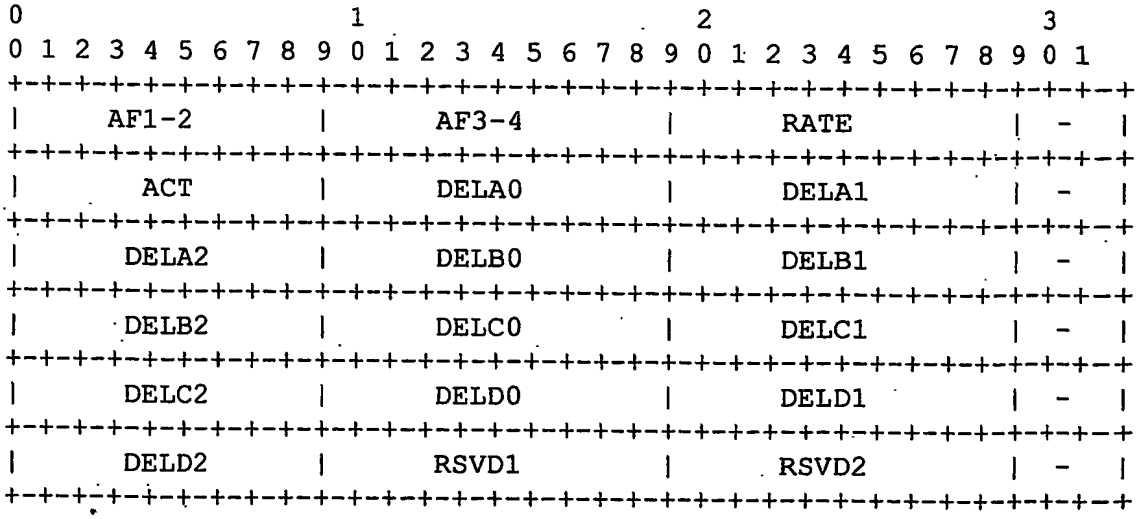

Fig. 10

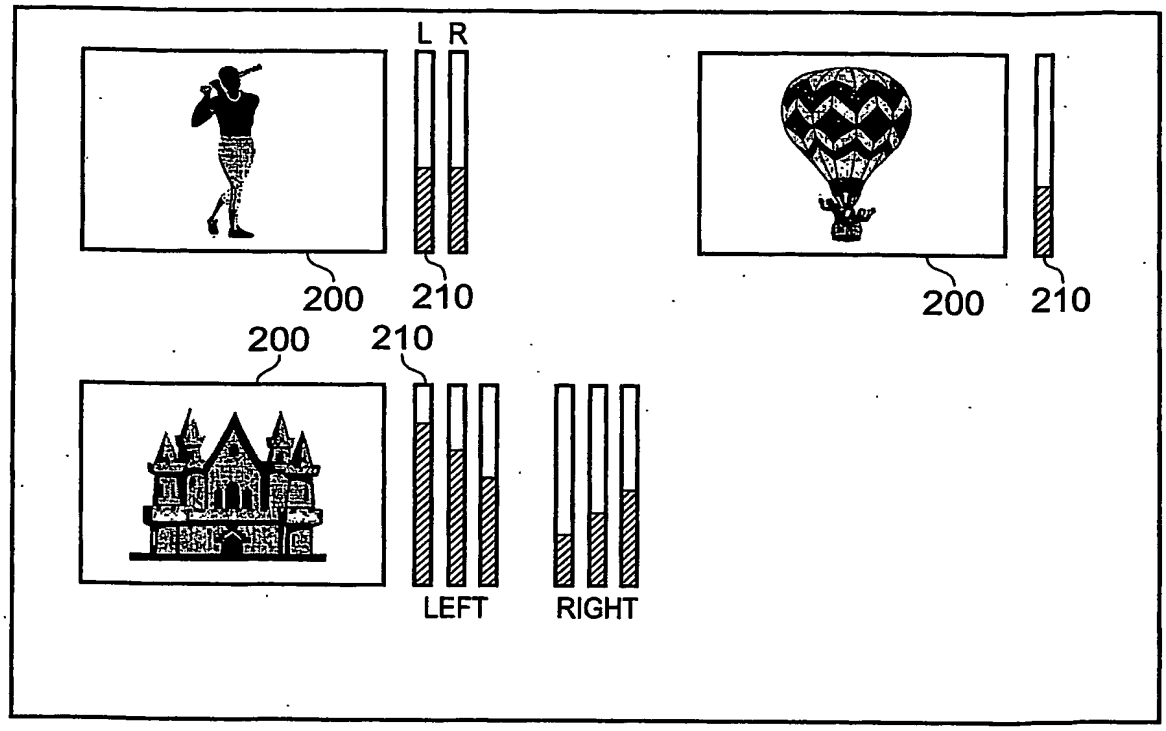

Fig. 11